SEQUENCE LISTING

<110> Zhou, Ming-Ming
Goldfarb, Mitchell

<120> Methods of Identifying Modulators of the FGF Receptor

<130> 2459-1-002N

<140> 09/757,415
<141> 2001-01-09

<150> 60/175,867
<151> 2000-01-12

<160> 33

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 508
<212> PRT
<213> Homo sapiens

<400> 1

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Met Gly Ser Cys Cys Ser Cys Pro Asp Lys Asp Thr Val Pro Asp Asn
 1               5                  10                  15
His Arg Asn Lys Phe Lys Val Ile Asn Val Asp Asp Asp Gly Asn Glu
            20                  25                  30
Leu Gly Ser Gly Ile Met Glu Leu Thr Asp Thr Glu Leu Ile Leu Tyr
        35                  40                  45
Thr Arg Lys Arg Asp Ser Val Lys Trp His Tyr Leu Cys Leu Arg Arg
    50                  55                  60
Tyr Gly Tyr Asp Ser Asn Leu Phe Ser Phe Glu Ser Gly Arg Arg Cys
65                  70                  75                  80
Gln Thr Gly Gln Gly Ile Phe Ala Phe Lys Cys Ala Arg Ala Glu Glu
                85                  90                  95
Leu Phe Asn Met Leu Gln Glu Ile Met Gln Asn Asn Ser Ile Asn Val
            100                 105                 110
Val Glu Glu Pro Val Val Glu Arg Asn Asn His Gln Thr Glu Leu Glu
        115                 120                 125
Val Pro Arg Thr Pro Arg Thr Pro Thr Thr Pro Gly Phe Ala Ala Gln
    130                 135                 140
Asn Leu Pro Asn Gly Tyr Pro Arg Tyr Pro Ser Phe Gly Asp Ala Ser
145                 150                 155                 160
Ser His Pro Ser Ser Arg His Pro Ser Val Gly Ser Ala Arg Leu Pro
                165                 170                 175
Ser Val Gly Glu Glu Ser Thr His Pro Leu Leu Val Ala Glu Glu Gln
            180                 185                 190
Val His Thr Tyr Val Asn Thr Thr Gly Val Gln Glu Glu Arg Lys Asn
        195                 200                 205
Arg Thr Ser Val His Val Pro Leu Glu Ala Arg Val Ser Asn Ala Glu
    210                 215                 220
Ser Ser Thr Pro Lys Glu Glu Pro Ser Ser Ile Glu Asp Arg Asp Pro
225                 230                 235                 240
```

```
Gln Ile Leu Leu Glu Pro Glu Gly Val Lys Phe Val Leu Gly Pro Thr
                245                 250                 255
Pro Val Gln Lys Gln Leu Met Glu Lys Glu Lys Leu Glu Gln Leu Gly
            260                 265                 270
Arg Asp Gln Val Ser Gly Ser Gly Ala Asn Asn Thr Glu Trp Asp Thr
        275                 280                 285
Gly Tyr Asp Ser Asp Glu Arg Arg Asp Ala Pro Ser Val Asn Lys Leu
    290                 295                 300
Val Tyr Glu Asn Ile Asn Gly Leu Ser Ile Pro Ser Ala Ser Gly Val
305                 310                 315                 320
Arg Arg Gly Arg Leu Thr Ser Thr Ser Thr Ser Asp Thr Gln Asn Ile
                325                 330                 335
Asn Asn Ser Ala Gln Arg Arg Thr Ala Leu Leu Asn Tyr Glu Asn Leu
            340                 345                 350
Pro Ser Leu Pro Pro Val Trp Glu Ala Arg Lys Leu Ser Arg Asp Glu
        355                 360                 365
Asp Asp Asn Leu Gly Pro Lys Thr Pro Ser Leu Asn Gly Tyr His Asn
    370                 375                 380
Asn Leu Asp Pro Met His Asn Tyr Val Asn Thr Glu Asn Val Thr Val
385                 390                 395                 400
Pro Ala Ser Ala His Lys Ile Glu Tyr Ser Arg Arg Arg Asp Cys Thr
                405                 410                 415
Pro Thr Val Phe Asn Phe Asp Ile Arg Arg Pro Ser Leu Glu His Arg
            420                 425                 430
Gln Leu Asn Tyr Ile Gln Val Asp Leu Glu Gly Gly Ser Asp Ser Asp
        435                 440                 445
Asn Pro Gln Thr Pro Lys Thr Pro Thr Thr Pro Leu Pro Gln Thr Pro
    450                 455                 460
Thr Arg Arg Thr Glu Leu Tyr Ala Val Ile Asp Ile Glu Arg Thr Ala
465                 470                 475                 480
Ala Met Ser Asn Leu Gln Lys Ala Leu Pro Arg Asp Asp Gly Thr Ser
                485                 490                 495
Arg Lys Thr Arg His Asn Ser Thr Asp Leu Pro Met
            500                 505
```

<210> 2
<211> 822
<212> PRT
<213> Mus musculus

<400> 2

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Met Trp Gly Trp Lys Cys Leu Leu Phe Trp Ala Val Leu Val Thr Ala
 1               5                  10                  15
Thr Leu Cys Thr Ala Arg Pro Ala Pro Thr Leu Pro Glu Gln Ala Gln
            20                  25                  30
Pro Trp Gly Val Pro Val Glu Val Glu Ser Leu Leu Val His Pro Gly
        35                  40                  45
Asp Leu Leu Gln Leu Arg Cys Arg Leu Arg Asp Asp Val Gln Ser Ile
    50                  55                  60
Asn Trp Leu Arg Asp Gly Val Gln Leu Val Glu Ser Asn Arg Thr Arg
65                  70                  75                  80
Ile Thr Gly Glu Glu Val Glu Val Arg Asp Ser Ile Pro Ala Asp Ser
                85                  90                  95
Gly Leu Tyr Ala Cys Val Thr Ser Ser Pro Ser Gly Ser Asp Thr Thr
            100                 105                 110
Tyr Phe Ser Val Asn Val Ser Asp Ala Leu Pro Ser Ser Glu Asp Asp
```

```
        115                 120                 125
Asp Asp Asp Asp Asp Ser Ser Ser Glu Glu Lys Glu Thr Asp Asn Thr
    130                 135                 140
Lys Pro Asn Arg Arg Pro Val Ala Pro Tyr Trp Thr Ser Pro Glu Lys
145                 150                 155                 160
Met Glu Lys Lys Leu His Ala Val Pro Ala Ala Lys Thr Val Lys Phe
                165                 170                 175
Lys Cys Pro Ser Ser Gly Thr Pro Asn Pro Thr Leu Arg Trp Leu Lys
            180                 185                 190
Asn Gly Lys Glu Phe Lys Pro Asp His Arg Ile Gly Gly Tyr Lys Val
        195                 200                 205
Arg Tyr Ala Thr Trp Ser Ile Ile Met Asp Ser Val Val Pro Ser Asp
    210                 215                 220
Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn Glu Tyr Gly Ser Ile Asn
225                 230                 235                 240
His Thr Tyr Gln Leu Asp Val Val Glu Arg Ser Pro His Arg Pro Ile
                245                 250                 255
Leu Gln Ala Gly Leu Pro Ala Asn Glu Thr Val Ala Leu Gly Ser Asn
            260                 265                 270
Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro Gln Pro His Ile Gln
        275                 280                 285
Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys Ile Gly Pro Asp Asn
    290                 295                 300
Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala Gly Val Asn Thr Thr Asp
305                 310                 315                 320
Lys Glu Met Glu Val Leu His Leu Arg Asn Val Ser Phe Glu Asp Ala
                325                 330                 335
Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Leu Ser His His
            340                 345                 350
Ser Ala Trp Leu Thr Val Leu Glu Ala Leu Glu Glu Arg Pro Ala Val
        355                 360                 365
Met Thr Ser Pro Leu Tyr Leu Glu Ile Ile Ile Tyr Cys Thr Gly Ala
    370                 375                 380
Phe Leu Ile Ser Cys Met Leu Gly Ser Val Ile Ile Tyr Lys Met Lys
385                 390                 395                 400
Ser Gly Thr Lys Lys Ser Asp Phe His Ser Gln Met Ala Val His Lys
                405                 410                 415
Leu Ala Lys Ser Ile Pro Leu Arg Arg Gln Val Thr Val Ser Ala Asp
            420                 425                 430
Ser Ser Ala Ser Met Asn Ser Gly Val Leu Leu Val Arg Pro Ser Arg
        435                 440                 445
Leu Ser Ser Ser Gly Thr Pro Met Pro Ala Gly Val Ser Glu Tyr Glu
    450                 455                 460
Leu Pro Glu Asp Pro Arg Trp Glu Leu Pro Arg Asp Arg Leu Val Leu
465                 470                 475                 480
Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln Val Val Leu Ala Glu
                485                 490                 495
Ala Ile Gly Leu Asp Lys Asp Lys Pro Asn Arg Val Thr Lys Val Ala
            500                 505                 510
Val Lys Met Leu Lys Ser Asp Ala Thr Glu Lys Asp Leu Ser Asp Leu
        515                 520                 525
Ile Ser Glu Met Glu Met Met Lys Met Ile Gly Lys His Lys Asn Ile
    530                 535                 540
Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp Gly Pro Leu Tyr Val Ile
545                 550                 555                 560
Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu Tyr Leu Gln Ala Arg
                565                 570                 575
```

```
Arg Pro Pro Gly Leu Glu Tyr Cys Tyr Asn Pro Ser His Asn Pro Glu
            580                 585                 590
Glu Gln Leu Ser Ser Lys Asp Leu Val Ser Cys Ala Tyr Gln Val Ala
        595                 600                 605
Arg Gly Met Glu Tyr Leu Ala Ser Lys Lys Cys Ile His Arg Asp Leu
    610                 615                 620
Ala Ala Arg Asn Val Leu Val Thr Glu Asp Asn Val Met Lys Ile Ala
625                 630                 635                 640
Asp Phe Gly Leu Ala Arg Asp Ile His His Ile Asp Tyr Tyr Lys Lys
                645                 650                 655
Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met Ala Pro Glu Ala Leu
            660                 665                 670
Phe Asp Arg Ile Tyr Thr His Gln Ser Asp Val Trp Ser Phe Gly Val
        675                 680                 685
Leu Leu Trp Glu Ile Phe Thr Leu Gly Gly Ser Pro Tyr Pro Gly Val
    690                 695                 700
Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly His Arg Met Asp
705                 710                 715                 720
Lys Pro Ser Asn Cys Thr Asn Glu Leu Tyr Met Met Met Arg Asp Cys
                725                 730                 735
Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys Gln Leu Val Glu
            740                 745                 750
Asp Leu Asp Arg Ile Val Ala Leu Thr Ser Ser Gln Glu Tyr Leu Asp
        755                 760                 765
Leu Ser Ile Pro Leu Asp Gln Tyr Ser Pro Ser Phe Pro Asp Thr Arg
    770                 775                 780
Ser Ser Thr Cys Ser Ser Gly Glu Asp Ser Val Phe Ser His Glu Pro
785                 790                 795                 800
Leu Pro Glu Glu Pro Cys Leu Pro Arg His Pro Thr Gln Leu Ala Asn
                805                 810                 815
Ser Gly Leu Lys Arg Arg
            820
```

<210> 3
<211> 22
<212> PRT
<213> Mus musculus

<400> 3
```
His Ser Gln Met Ala Val His Lys Leu Ala Lys Ser Ile Pro Leu Arg
 1               5                  10                  15
Arg Gln Val Thr Val Ser
            20
```

<210> 4
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Tyrosine phosphorylation peptide

<221> VARIANT
<222> (9)...(9)
<223> Xaa is a phosphotyrosine

<400> 4
Leu Val Ile Ala Gly Asn Pro Ala Xaa Arg Ser
 1   5   10

<210> 5
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus sequence

<221> VARIANT
<222> (2)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (5)...(7)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (11)...(11)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (13)...(13)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (15)...(15)
<223> Xaa = Any Amino Acid

<400> 5
Val Xaa Xaa Leu Xaa Xaa Xaa Ile Xaa Leu Xaa Arg Xaa Val Xaa Val
 1   5   10   15

<210> 6
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Motif

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> (4)...(4)

<223> Xaa is a phosphotyrosine

<400> 6
Asn Pro Xaa Xaa
 1

<210> 7
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide derived from the TrKA receptor

<221> VARIANT
<222> (8)...(8)
<223> Xaa is a phosphotyrosine

<400> 7
His Ile Ile Glu Asn Pro Gln Xaa Phe Ser Asp Ala
 1   5   10

<210> 8
<211> 55
<212> PRT
<213> Homo sapiens

<400> 8
Asp Asn His Arg Asn Lys Phe Lys Val Ile Asn Val Asp Asp Asp Gly
 1   5   10   15
Asn Glu Leu Gly Ser Gly Ile Met Glu Leu Thr Asp Thr Glu Leu Ile
            20   25   30
Leu Tyr Thr Arg Lys Arg Asp Ser Val Lys Trp His Tyr Leu Cys Leu
        35   40   45
Arg Arg Tyr Gly Tyr Asp Ser
    50   55

<210> 9
<211> 55
<212> PRT
<213> Homo sapiens

<400> 9
Asp Asn His Pro Thr Lys Phe Lys Val Thr Asn Val Asp Asp Glu Gly
 1   5   10   15
Val Glu Leu Gly Ser Gly Val Met Glu Leu Thr Gln Ser Glu Leu Val
            20   25   30
Leu His Leu His Arg Arg Glu Ala Val Arg Trp Pro Tyr Leu Cys Leu
        35   40   45
Arg Arg Tyr Gly Tyr Asp Ser
    50   55

<210> 10

<211> 61
<212> PRT
<213> Homo sapiens

<400> 10
Pro Ala Phe Lys Glu Val Trp Gln Val Ile Leu Lys Pro Lys Gly Leu
 1   5   10   15
Gly Gln Thr Lys Asn Leu Ile Gly Ile Tyr Arg Leu Cys Leu Thr Ser
            20   25   30
Lys Thr Ile Ser Phe Val Lys Leu Asn Ser Glu Ala Ala Ala Val Val
        35   40   45
Leu Gln Leu Met Asn Ile Arg Arg Cys Gly His Ser Glu
    50   55   60

<210> 11
<211> 61
<212> PRT
<213> Homo sapiens

<400> 11
Ala Ala Tyr Arg Glu Val Trp Gln Val Asn Leu Lys Pro Lys Gly Leu
 1   5   10   15
Gly Gln Ser Lys Asn Leu Thr Gly Val Tyr Arg Leu Cys Leu Ser Ala
            20   25   30
Arg Thr Ile Gly Phe Val Lys Leu Asn Cys Glu Gln Pro Ser Val Thr
        35   40   45
Leu Gln Leu Met Asn Ile Arg Arg Cys Gly His Ser Asp
    50   55   60

<210> 12
<211> 61
<212> PRT
<213> Mus musculus

<400> 12
Ala Val Tyr Arg Glu Val Trp Gln Val Asn Leu Lys Pro Lys Gly Leu
 1   5   10   15
Gly Gln Ser Lys Asn Leu Thr Gly Val Tyr Arg Leu Cys Leu Ser Ala
            20   25   30
Arg Thr Ile Gly Phe Val Lys Leu Asn Cys Glu Gly Pro Ser Val Thr
        35   40   45
Leu Gln Leu Asn Asn Ile Arg Arg Cys Gly His Ser Asp
    50   55   60

<210> 13
<211> 61
<212> PRT
<213> Homo sapiens

<400> 13
Pro Phe Tyr Lys Asp Val Trp Gln Val Ile Val Lys Pro Arg Gly Leu
 1   5   10   15
Gly His Arg Lys Glu Leu Ser Gly Val Phe Arg Leu Cys Leu Thr Asp
            20   25   30

```
Glu Glu Val Val Phe Val Arg Leu Asn Thr Glu Val Ala Ser Val Val
        35                  40                  45
Val Gln Leu Leu Ser Ile Arg Arg Cys Gly His Ser Glu
    50                  55                  60


<210> 14
<211> 61
<212> PRT
<213> Mus musculus

<400> 14
Pro Phe Tyr Lys Asp Val Trp Gln Val Val Val Lys Pro Arg Gly Leu
 1               5                  10                  15
Gly His Arg Lys Glu Leu Ser Gly Val Phe Arg Leu Cys Leu Thr Asp
            20                  25                  30
Glu Glu Val Val Phe Val Arg Leu Asn Thr Glu Val Ala Ser Val Val
        35                  40                  45
Val Gln Leu Leu Ser Ile Arg Arg Cys Gly His Ser Glu
    50                  55                  60


<210> 15
<211> 72
<212> PRT
<213> Mus musculus

<400> 15
Ala Pro Phe Gln Asp Val Trp Pro Val Thr Leu Arg Ser Lys Gly Leu
 1               5                  10                  15
Gly Arg Ala Gln Gly Leu Ser Ser Gly Ser Tyr Arg Leu Cys Leu Gly
            20                  25                  30
Ser Gly Ala Leu Ser Leu Leu Arg Lys Pro Gly Ser Lys Gly Ser Arg
        35                  40                  45
Asp Ser Arg Ala Thr Pro Pro Pro Val Leu Arg Leu Ser Leu Leu Ser
    50                  55                  60
Val Arg Arg Cys Gly His Ala Asp
65                  70


<210> 16
<211> 71
<212> PRT
<213> Homo sapiens

<400> 16
Asn Leu Phe Ser Phe Glu Ser Gly Arg Arg Cys Gln Thr Gly Gln Gly
 1               5                  10                  15
Ile Phe Ala Phe Lys Cys Ala Arg Ala Glu Glu Leu Phe Asn Met Leu
            20                  25                  30
Gln Glu Ile Met Gln Asn Asn Ser Ile Asn Val Val Glu Glu Pro Val
        35                  40                  45
Val Glu Arg Asn Asn His Gln Thr Glu Leu Glu Val Pro Arg Thr Pro
    50                  55                  60
Arg Thr Pro Thr Thr Pro Gly
65                  70
```

<210> 17
<211> 72
<212> PRT
<213> Homo sapiens

<400> 17
Asn Leu Phe Ser Phe Glu Ser Gly Arg Arg Cys Gln Thr Gly Gln Gly
 1   5   10   15
Ile Phe Ala Phe Lys Cys Ser Arg Ala Glu Glu Ile Phe Asn Leu Leu
            20   25   30
Gln Asp Leu Met Gln Cys Asn Ser Ile Asn Val Met Glu Glu Pro Val
        35   40   45
Ile Ile Thr Arg Asn Ser His Pro Ala Glu Leu Asp Leu Pro Arg Ala
    50   55   60
Pro Gln Pro Pro Asn Ala Leu Gly
65   70

<210> 18
<211> 49
<212> PRT
<213> Homo sapiens

<400> 18
Asn Phe Phe Phe Ile Glu Val Gly Arg Ser Ala Val Thr Gly Pro Gly
 1   5   10   15
Glu Phe Trp Met Gln Val Asp Asp Ser Val Val Ala Gln Asn Met His
            20   25   30
Glu Thr Ile Leu Glu Ala Met Arg Ala Met Ser Asp Glu Phe Arg Pro
        35   40   45
Arg

<210> 19
<211> 49
<212> PRT
<213> Homo sapiens

<400> 19
Ser Phe Phe Phe Ile Glu Val Gly Arg Ser Ala Val Thr Gly Pro Gly
 1   5   10   15
Glu Leu Trp Met Gln Ala Asp Asp Ser Val Val Ala Gln Asn Ile His
            20   25   30
Glu Thr Ile Leu Glu Ala Met Lys Ala Leu Lys Glu Leu Phe Glu Phe
        35   40   45
Arg

<210> 20
<211> 49
<212> PRT
<213> Mus musculus

<400> 20

```
Ser Phe Phe Phe Ile Glu Val Gly Arg Ser Ala Val Thr Gly Pro Gly
 1               5                  10                  15
Glu Leu Trp Met Gln Val Asp Asp Ser Val Val Ala Gln Asn Ile His
            20                  25                  30
Glu Thr Ile Leu Glu Ala Met Lys Ala Leu Lys Glu Leu Phe Glu Phe
        35                  40                  45
Arg
```

<210> 21
<211> 49
<212> PRT
<213> Homo sapiens

<400> 21

```
Gln Tyr Phe Phe Leu Glu Val Gly Arg Ser Thr Val Ile Gly Pro Gly
 1               5                  10                  15
Glu Leu Trp Met Gln Val Asp Asp Cys Val Val Ala Gln Asn Met His
            20                  25                  30
Glu Leu Phe Leu Glu Lys Met Arg Ala Leu Cys Ala Asp Glu Tyr Arg
        35                  40                  45
Ala
```

<210> 22
<211> 49
<212> PRT
<213> Mus musculus

<400> 22

```
Gln Tyr Phe Phe Leu Glu Val Gly Arg Ser Thr Val Ile Gly Pro Gly
 1               5                  10                  15
Glu Leu Trp Met Gln Val Asp Asp Ser Val Val Ala Gln Asn Met His
            20                  25                  30
Glu Leu Phe Leu Glu Lys Met Arg Ala Leu Cys Ala Asp Glu Tyr Arg
        35                  40                  45
Ala
```

<210> 23
<211> 49
<212> PRT
<213> Mus musculus

<400> 23

```
Ser Phe Phe Phe Leu Glu Leu Gly Arg Ser Ala Pro Ile Gly Pro Gly
 1               5                  10                  15
Glu Leu Trp Leu Gln Ala Pro Asp Ala Val Val Ala Gln Ser Ile His
            20                  25                  30
Glu Thr Val Leu Ala Ala Met Lys Arg Leu Gly Ser Asn Ala Ala Gly
        35                  40                  45
Lys
```

<210> 24
<211> 22
<212> PRT
<213> Homo sapiens

<400> 24
His Ser Gln Met Ala Val His Lys Leu Ala Lys Ser Ile Pro Leu Arg
 1   5   10   15
Arg Gln Val Thr Val Ser
            20

<210> 25
<211> 22
<212> PRT
<213> Xenopus laevis

<400> 25
Asn Ser Gln Leu Ala Val His Lys Leu Ala Lys Ser Ile Pro Val Arg
 1   5   10   15
Arg Gln Val Thr Val Ser
            20

<210> 26
<211> 22
<212> PRT
<213> Homo sapiens

<400> 26
Ser Ser Gln Pro Ala Val His Lys Leu Thr Lys Arg Ile Pro Leu Arg
 1   5   10   15
Arg Gln Val Thr Val Ser
            20

<210> 27
<211> 22
<212> PRT
<213> Xenopus laevis

<400> 27
Phe Thr Gly Pro Pro Val His Lys Leu Thr Lys Arg Ile Pro Leu His
 1   5   10   15
Arg Gln Val Thr Val Ser
            20

<210> 28
<211> 20
<212> PRT
<213> Homo sapiens

<400> 28
Gly Ser Pro Thr Val His Lys Ile Ser Arg Phe Pro Leu Lys Arg Gln
 1   5   10   15

Val Ser Leu Glu
20

<210> 29
<211> 20
<212> PRT
<213> Mus musculus

<400> 29
Gly Ser Pro Thr Val His Lys Val Ser Arg Phe Pro Leu Lys Arg Gln
1 5 10 15
Val Ser Leu Glu
20

<210> 30
<211> 21
<212> PRT
<213> Xenopus laevis

<400> 30
Thr Ala Pro Pro Val His Lys Val Ser Arg Phe Pro Leu Lys Arg Gln
1 5 10 15
Gln Val Ser Leu Glu
20

<210> 31
<211> 21
<212> PRT
<213> Homo sapiens

<400> 31
Arg Pro Pro Ala Thr Val Gln Lys Leu Ser Arg Phe Pro Leu Ala Arg
1 5 10 15
Gln Phe Ser Leu Glu
20

<210> 32
<211> 21
<212> PRT
<213> Mus musculus

<400> 32
Arg Gln Pro Val Thr Ile Gln Lys Leu Ser Arg Phe Pro Leu Ala Arg
1 5 10 15
Gln Phe Ser Leu Glu
20

<210> 33
<211> 21
<212> PRT
<213> Xenopus laevis

<400> 33
Leu Gln Thr Pro Thr Val His Lys Leu Ala Lys Phe Pro Leu Ile Arg
 1   5   10   15
Gln Phe Ser Leu Glu
            20